

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11564 (1986): Supplier's data sheet for fluid bed dryers
[MED 17: Chemical Engineering Plants and Related Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

SUPPLIER'S DATA SHEET
FOR FLUID BED DRYERS

1. **Scope** — Covers the technical data to be supplied by a manufacturer or supplier of a dryer to a customer according to purchaser's data sheet.

2. **Supplier's Data Sheet**

Supplier's Data Sheet for Fluid Bed Dryers	
A Plant/Product	
1. Customer Ref No.	:
2. Customer Name	:
3. Plant Location	:
4. Product Name/s	:
5. Solvent Name/s	:
B Fluid Bed Unit	
1. Type	
a) Batch/continuous	:
b) Static/vibrating	:
2. Design basis:	As per purchaser's data sheet IS : 11572 - 1986.
3. Performance Guarantee Figures:	
a) For continuous unit	
1. Feed rate	:kg/h
2. Product rate	:kg/h
3. Feed volatile content	: percent
Volatile matter at.....K.....	percent weight
Free moisture.....	percent weight
Water of crystallization.....	percent weight
4. Product volatile content	: percent
Volatile matter at.....K.....	percent weight
Moisture	percent weight
5. Evaporation rate	: kg/h
b) For batch unit	
1. Batch weight	: kg
2. Batch holding/retention time	: minutes
c) Energy consumption:	
1. Steam	: kg/h at.....MPa and — K
2. Hot water	: kg/h at.....MPa and — K
3. Fuel oil/gas	: kg/h or m ³ /h
4. Power	: kWh

Supplier's Data Sheet for Fluid Bed Dryers — Contd

d) Pollution norms

- 1) Particulate matter
- 2) Any other

4. Other Utilities

- a) Compressed air..... : kg/h at..... MPa
- b) Inter gas (if required)..... : kg/h at..... MPa

5. Operating Characteristics:

- a) Retention time in fluid bed..... minutes
- b) Operating temperature of fluid bed K
- c) Pressure drop through bed..... mm WC
- d) Pressure above bed..... mm WC
- e) Fluidizing medium

Fluid, air/gas.....
Flow (dry/wet basis)..... Nm³/h
Pressure at inlet..... mm WC
Temperature at inlet..... K
Humidity at inlet..... percent RH

6. Space Requirement for Installation of Dryers

- a) Length :m
- b) Breadth : m
- c) Height :m
- d) Dimensional/Sectional drawings of : Drawing number.....
the dryer

7. Weight of the Equipment

- a) Empty :kg
- b) While in operation :kg

8. Construction Features

a) Main shell/body:

- 1. Material of construction :
- 2. Thickness :
- 3. Finish — Inside ;
Outside :

b) Insulation

- 1. Thickness of insulation : mm
- 2. Insulation material :
- 3. Thickness and material of : mm
construction for installation
cladding

c) Supporting structure

- 1. Brief description :
- 2. Material of construction :

Supplier's Data Sheet for Fluid Bed Dryers — *Contd*

d) Air distributor plate

1. Type
2. Percent free opening for air passage:
3. Thickness and material of construction:
4. Distributor plate as per drawing numbers:

9. Auxiliaries

a) Feed hopper

1. Type :
2. Capacity :
3. Thickness and material of construction :

b) Feeding device

1. Type : Screw feeder/vibratory feeder, etc
2. Capacity range : Minimum —
Maximum —
3. Driving mechanism :
4. Thickness and material of construction :
5. Feed control/regulating device :

c) Product discharge device

1. Type :
2. Capacity :
3. Drive mechanism :
4. Material of construction :

d) Gas heater/cooler

1. Type :
2. Duty :
3. Material of construction :
4. Heating medium :

e) Gas handling

1. Type of fans :
2. Fan capacity : Nm³/h
3. Developed head : mm WC
4. Material of construction
5. Driving mechanism and motor power

f) Gas filters

1. Filtering media :
2. Material of construction :

g) Dust handling and fines recovery devices

1. Type :
2. Make :
3. No. of units :
4. Capacity, each : Nm³/h
5. Dust content :
 - i) At inlet : mg/m³
 - ii) At outlet : mg/m³

Supplier's Data Sheet for Fluid Bed Dryers — Contd

10. Materials of Construction

11. Dust Extraction Device

- a) Type
- b) Capacity
- c) Drive mechanism and motor power
- d) Materials of construction :
- e) Solvent recovery system :
Brief description
- f) Instrumentation and control :
 - 1. Control logic diagram
 - 2. Instrument details
 - i) Type
 - ii) Range
 - iii) Accuracy

EXPLANATORY NOTE

The information given by a manufacturer or a supplier according to the above data sheet will enable a purchaser to evaluate the product before he finally decides to purchase a particular brand or type.